Amendments to the Claims

1. through 15. (Cancelled)

(New) A compound of the formula

$$R^{3a}$$
 R^{3b}
 R^{5}
 R^{5}

wherein

Q, X, Y, and Z are independently selected from the group consisting of CR¹ and N, provided that no more than two of Q, X, Y, and Z are N and at least two of Q, X, Y, and Z are CH; or Y is CH, Z is CH, and the moiety "Q=X" represents "S" to form a thiophene ring;

R¹ is independently at each occurrence selected from the group consisting of hydrogen, halogen, C₁-C₄ alkoxy, and C₁-C₄ alkyl;

R² is selected from the group consisting of halogen; C₁-C₄ alkoxy; C₁-C₄ alkyl; C₃-C₈ cycloalkyl; cyano; trifluoromethyl; pyridinyl optionally substituted with one to two substituents independently selected from the group consisting of halogen, C₁-C₄ alkoxy, and C₁-C₄ alkyl; thienyl optionally substituted with one substituent selected from the group consisting of halogen, C₁-C₄ alkoxy, and C₁-C₄ alkyl; phenyl optionally substituted with from one to three substituents independently selected from the group consisting of halogen, C₁-C₄ alkoxy, C₁-C₄ alkyl, trifluoromethyl, and cyano; and pyrrolyl optionally substituted with one to two substituents independently selected from the group consisting of halogen, C₁-C₄ alkyl;

R^{3a} is a radical of the formula

$$(Z')-(Y')_{q}-(')_{p}-$$

wherein:

X' is selected from the group consisting of C₁-C₄ alkandiyl and



Y' is selected from the group consisting of O and S; and

Z' is selected from the group consisting of C_1 - C_4 alkyl; C_3 - C_8 cycloalkyl optionally substituted with one to three substituents independently selected from the group consisting of halogen, C_1 - C_4 alkoxy, C_1 - C_4 alkyl, trifluoromethyl, cyano, and nitro; phenyl optionally substituted with one to three substituents independently selected from the group consisting of halogen, C_1 - C_4 alkoxy, C_1 - C_4 alkyl, trifluoromethyl, cyano, and nitro; heteroaryl optionally substituted with one or two substituents independently selected from the group consisting of halogen, C_1 - C_4 alkoxy, and C_1 - C_4 alkyl; and heterocycle optionally substituted with one or two substituents independently selected from the group consisting of halogen, C_1 - C_4 alkoxy, and C_1 - C_4 alkyl;

p is zero or one;

q is zero or one;

provided that when p is zero, q is zero;

R^{3b} is selected from the group consisting of hydrogen, C₁-C₄ alkyl, and benzyl;

or R^{3a} and R^{3b} are taken together with the nitrogen with which they are attached to form a heterocycle optionally substituted with one or two substituents independently selected from the group consisting of halogen, C₁-C₄ alkoxy, and C₁-C₄ alkyl;

R⁴ is selected from the group consisting of hydrogen, hydroxy, and fluoro;

R⁵ is selected from the group consisting of hydrogen, halogen, C₁-C₄ alkoxy, and C₁-C₄ alkyl;

m is one or two;

n is one or two;

or pharmaceutically acceptable addition salts thereof.

(New) The compound of Claim 16 wherein R⁵ is hydrogen, R⁴ is hydroxy, m is one, and which has the trans stereochemistry at the 1- and 2-position shown below:

$$R^{3a}$$
 $(CH_2)_n$
 R^{3b}
 $(CH_2)_m$
 $(CH_2)_m$
 $(CH_2)_m$
 $(CH_2)_m$

(New) A compound according to Claim 16 wherein Q, X, Y, and Z are each CH.

19. (New) A compound according to Claim 17 wherein Q, X, Y, and Z are each CH.

20. (New) A compound according to Claim 16 wherein one of Q, X, Y, and Z is CF and the others are CH.

21. (New) A compound according to Claim 17 wherein one of Q, X, Y, and Z is CF and the others are CH.

(New) A compound according to Claim, 16 wherein Q is CF, and X, Y, and Z are each CH.

(New) A compound according to Claim 17 wherein Q is CF, and X, Y, and Z are each CH.

(New) A compound according to Claim 16 wherein R² is phenyl optionally substituted with from one to three substituents independently selected from the group consisting of halogen, C₁-C₄ alkoxy, C₁-C₄ alkyl, trifluoromethyl, and cyano.

(New) A compound according to Claim 17 wherein R² is phenyl optionally substituted with from one to three substituents independently selected from the group consisting of halogen, C₁-C₄ alkoxy, C₁-C₄ alkyl, trifluoromethyl, and cyano.

26: (New) A compound according to Claim 16 wherein R² is phenyl.

(New) A compound according to Claim 17 wherein R² is phenyl.

(New) A compound according to Claim 26 wherein n is one.

(New) A compound according to Claim 27 wherein n is one.

(New) A pharmaceutical composition comprising a compound of Claim 16 and a pharmaceutically acceptable diluent.

- 31. (New) A method of treating disorders associated with the muscarinic receptors, comprising administering to a patient in need thereof an effective amount of a compound of Claim 16.
- 32. (New) A method of treating cognitive disorders, comprising: administering to a patient in need thereof an effective amount of a compound of Claim 16.
- 33. (New) A method of treating Alzheimer's disease, comprising: administering to a patient in need thereof an effective amount of a compound of Claim 16.
- 34. (New) A method of treating schizophrenia, comprising: administering to a patient in need thereof an effective amount of a compound of Claim 16.
- 35. (New) A method of treating mild cognitive impairment, comprising: administering to a patient in need thereof an effective amount of a compound of Claim 16.
- 36. (New) A method of treating cognitive impairment associated with schizophrenia, comprising: administering to a patient in need thereof an effective amount of a compound of Claim 16.